



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/591,739	06/04/2007	Jie Wang	HW 0410422US	3142
74365	7590	11/24/2010	EXAMINER	
Slater & Matsil, L.L.P.			DOAN, PHUOC HUU	
Slater & Matsil, L.L.P.				
17950 Preston Road, Suite 1000			ART UNIT	
Dallas, TX 75252			PAPER NUMBER	
			2617	
			NOTIFICATION DATE	
			DELIVERY MODE	
			11/24/2010	
			ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docketing@slater-matsil.com

Office Action Summary	Application No. 10/591,739	Applicant(s) WANG, JIE	
	Examiner PHUOC DOAN	Art Unit 2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 September 2010.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3, 5-7 and 14-27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-3, 5-7 and 14-17 is/are allowed.
- 6) ☒ Claim(s) 18, 21, 23 and 24 is/are rejected.
- 7) ☒ Claim(s) 20 and 21 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 09/27/2010 have been fully considered but they are not persuasive.

In response to the Applicant's remarks on pages 10, the examiner respectfully disagreed, make a note: identifying access technologies means the mobile device selects or able to access a PLMN access network and accomplishes the roaming of the mobile device to use WCDMA, GSM, WLAN wireless access technology (see the original specification in page 6, lines 10-25). Hulkkonen clearly discloses the list stored in the mobile device where is required the access between wireless network and mobile device (see paragraphs [0043, 0045. 0051-0052]) where the list access networks is required to stored in user equipments or mobile device that identify all radio access networks based on the service agreement of the network providers, for example, a mobile device registered with service provider (AT&T, Verizon) to use the SIM card that has been stored on the mobile device and identifier by the servers on the wireless systems (service provider) that based on the services agreement, and mobile device can or can't access anywhere such as a roaming, because the wireless network servers systems have set and assigned to allowed the mobile device permitted access or not permitted

Art Unit: 2617

access networks. Therefore, in this case, the claimed limitations cited met the feature of Hulkkonen as indicated above, for example, selecting or providing list of allowed to access networks (GSM or CDMA) where the list stored in device to allowed or not allowed to access networks based upon the stored list in user equipments or mobile devices identify by all radio access networks “service provider controlled network access technology which are proving such as GSM, CDMA, UTRAN, WLAN network protocols” based on the USERS agreement “has registered a SIM card to service provider” and the wireless network will assign to allow or not allow user equipment or mobile devices access the wireless networks as clearly discloses by Hulkkonen reference.

The claimed recite to access by inquiring a lost stored in the mobile station, the stored lost identifying access technologies and mobile networks to which the mobile station is not allowed to access are met a feature as disclosed by Hulkkonen above, unless the claimed cite to specify in Table 1, page 6 of specification where can be overcome the prior art.

In response to the Applicant’s remarks on pages 11-12, the examiner respectively disagree, Hulkkonen emphasized and addressed all the limitations as explain above.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 18-19, 22-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hulkkonen (US Pub No: 2004/0029587) in view of Dalvie (US Patent No: 7,062,270) and further in view of Par (US Patent No.: 6,992,993).

As to claim 18, 21, 23, 24, Hulkkonen discloses a method performed by a mobile station (Fig. 2, item 21), the method comprising: when selecting a mobile network to access (par [0041, 0051] “selecting or providing list of allowed target radio access networks”), checking whether the selected mobile network and a corresponding access technology are not permitted for the mobile station to access by inquiring a list stored in the mobile station (par [0043, 0045, 0051-0052] “where list of allowed target radio access networks that has stored a list for each of several user equipments identify all radio access networks based on the agreement between the network providers”), the stored list identifying access technologies and mobile

networks to which the mobile station is not allowed to access ; (par [0043, 0045, 0051-0052] “ where list of allowed target radio access networks that has stored a list for each of several user equipments identify all radio access networks based on the agreement between the network providers”) and if the selected mobile network and corresponding access technology are not permitted for the mobile station (par [0043-0046]). However, Hulkkonen does not disclose determining not to send a location update request to a core network associated with the selected network; or if the selected network or the access technology is permitted for the mobile station to access, sending a location update request for access the selected network, the location update request being sent to the core network.

But, Dalvie clearly discloses determining not to send a location update request to a core network associated with the selected network; or if the selected network or the access technology is permitted for the mobile station to access, sending a location update request for access the selected network (Col. 3, line 56 to Col. 4, line 20 , the location update request being sent to the core network (see Col. 2, lines 9-22 “Location Update request message that allowed the mobile for roaming”, and Col. 3, line 56 to Col. 4, line 20 “roaming enhancement node, e.g., location update procedure”). Therefore, it would have been obvious to one of ordinary skill in the art at the time the

invention was made to modify Hulkkonen, with Dalvie's discloses, in order to provide an improved method for controlling roaming in wireless communication systems in which compatible with various systems such as GSM, WCDMA, WLAN, and/or other types to share the PLMN number.

The combination of Hulkkonen and Dalvie do not disclose the list is stored on user equipment. But Park clearly discloses the list is stored on user equipment (col. 11, lines 35-45 “the PLMN ID are stored in the mobile station that allowed the mobile station accessed to the networks based on the ID or SIM has stored on the mobile devices”. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was modified by Park to the system of Hulkkonen and Dalvie in order to simply perform a location registration of the found cell.

As to claim 19, the combination of Hulkkonen and Dalvie further disclose the method of claim 18, wherein the list comprises at least one group of access restriction rule data, each access restriction rule data group comprising a network number and at least one access technology identifier associated with the network number for indicating that a network identified by the network number is not allowed for the mobile station to access via a access technology identified by said access technology identifier (col. 3,

Art Unit: 2617

lines 5-40 “includes a database of the network that contains restricted location areas of the home network” of Dalvie).

As to claim 25, Dalvie further discloses comprising an update unit configured to update the content of the list (col. 3 through col. 4, lines 55-30 “where to provide by update location list that contains on the database of the networks”).

As to claim 26, the combination of Hulkkonen, Dalvie and Park further disclose further comprising a generation module configured to generate the list at the mobile station according to information indicating whether said PLMN network or access technology being not allowed for the mobile station provided by the core network (col. 11, lines 10-40 “the PLMN ID are stored in the mobile station and where are provided the information of the list on PLMN network are restricted or not”).

As to claim 27, Hulkkonen further discloses wherein the mobile communication system comprises at least one system selected from the group consisting of a Global System of Mobile (GSM) network system, a Wideband Code Division Multiple Access (WCDMA) network system, a

Wireless Local Area Network (WLAN) system, a Bluetooth network system and a combination thereof (par [0028-0029] "including GSM network").

Allowable Subject Matter

3. Claims 1-3, 5-7, 14-17 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHUOC DOAN whose telephone number is (571) 272-7920. The examiner can normally be reached on 10:00AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, LESTER KINCAID can be reached on 571-272-7922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2617

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/PHUOC DOAN/
Examiner, Art Unit 2617